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Step 1.

Patients, Rooms, and Tiny hospital system.

Step 2.

Properties:

PATIENT
PATIENT NAME
PATIENT NO.
PATIENT BIRTH
PATIENT STATUS
PATIENT ROOM

ROOM
ROOM NO.
ROOM TYPE
ROOM PATIENT
ROOM STATUS

Hospital system
ROOMTYPE
ROOM FEE
ROOM PATIENT

Behaviors:

Patient behavior
IntroduceSelf(); void
SaySymptoms(); void
PayFee(); void

Room Behavior
Update(); void
Search(); void

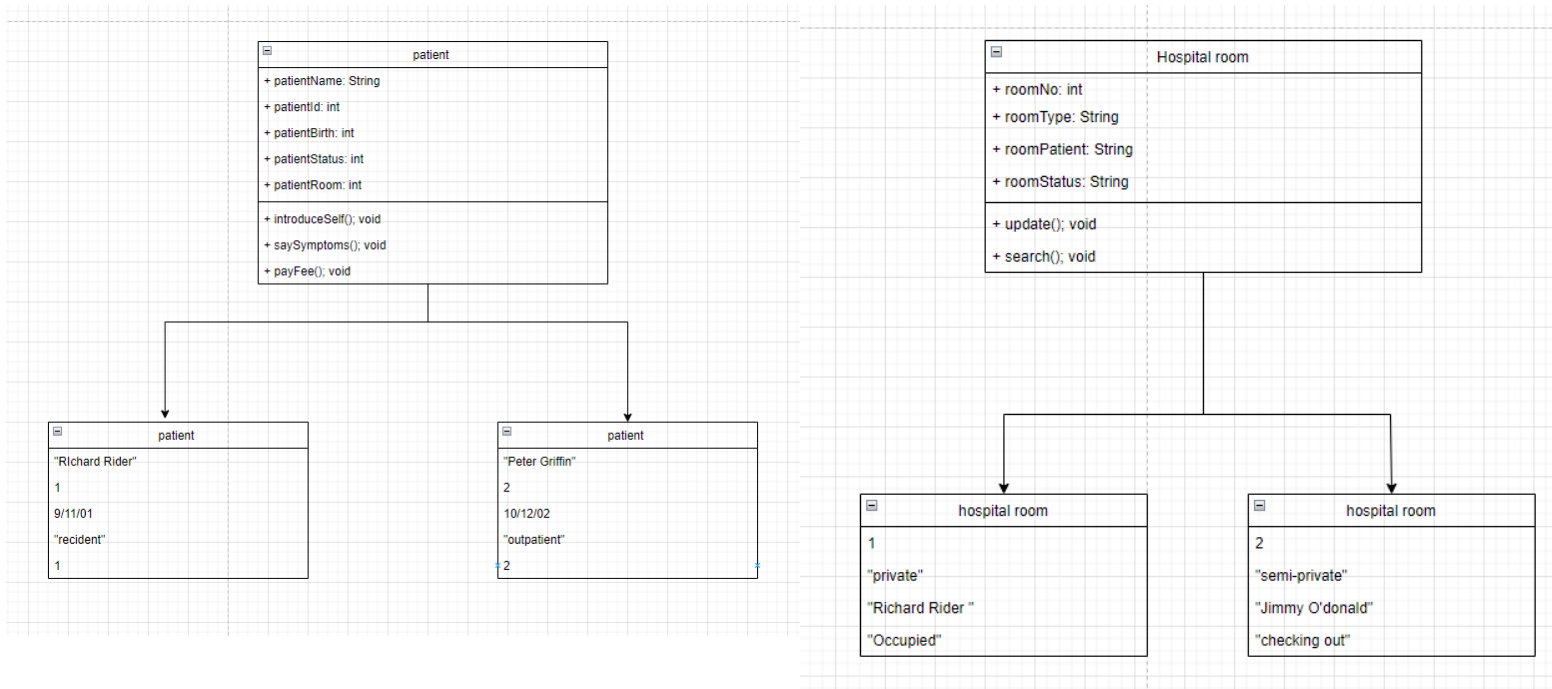
Hospital System behavior
DisplayPatientInformation(); void
DisplayRoomInformation(); void
PayFee(); void

Method:

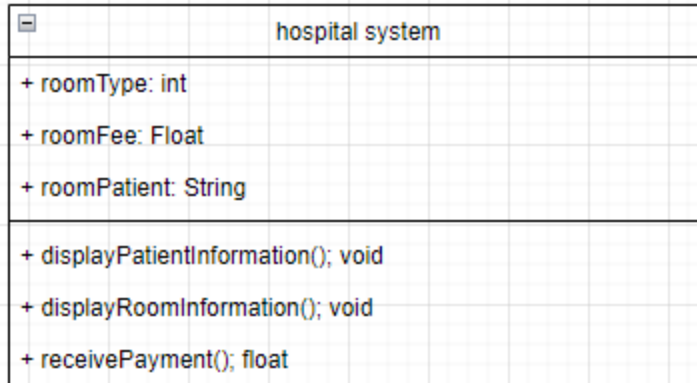
Object-Oriented Code.

Step 3.

Model diagram



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Step 4.

Code.

```
public class Main {
    public static void displayPatientInformation1(){
        String patientName = "Richard Rider";
        int patientId = 1;
        String patientBirth = "9/11/01";
        String patientStatus = "Recident";
        int patientRoom = 1;
        System.out.println("Patient Information:");
        System.out.println("Patient Name: "+ patientName);
        System.out.println("Patient ID: "+ patientId);
        System.out.println("Patient Birth: "+ patientBirth);
        System.out.println("Patient Status: " + patientStatus);
        System.out.println("Patient Room: " + patientRoom);
    }
    public static void displayPatientInformation2(){
        String patientName = "Peter Griffin";
        int patientId = 2;
        String patientBirth = "10/12/02";
```

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```
String patientStatus = "Outrecident";
int patientRoom = 2;
System.out.println("Patient Information:");
    System.out.println("Patient Name: "+ patientName);
    System.out.println("Patient ID: "+ patientId);
    System.out.println("Patient Birth: "+ patientBirth);
    System.out.println("Patient Status: " + patientStatus);
    System.out.println("Patient Room: " + patientRoom);
}

public static void displayRoomInformation1(){
    int roomNumber = 1;
    String roomType = "Private";
    String roomPatient = "Richard Rider";
    String roomStatus = "Occupied";

    System.out.println("Room Information:");
        System.out.println("Room Number : "+ roomNumber);
        System.out.println("Patient Type: "+ roomType);
        System.out.println("Patient Name: "+ roomPatient);
        System.out.println("Room Status: "+ roomStatus);

}

public static void displayRoomInformation2(){
    int roomNumber = 1;
    String roomType = "Semi-private";
    String roomPatient = "Peter Griffin";
    String roomStatus = "Checking Out";

    System.out.println("Room Information:");
        System.out.println("Room Number : "+ roomNumber);
        System.out.println("Patient Type: "+ roomType);
        System.out.println("Patient Name: "+ roomPatient);
        System.out.println("Room Status: "+ roomStatus);

}

public static void fee1(){
    String fee = "$5000";
    System.out.println("Paid: "+ fee);
}

public static void fee2(){
    String fee = "$500";
    System.out.println("Paid: "+ fee);
}

public static void main(String[] args) {
```

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```
        displayPatientInformation1();  
        fee1();  
        System.out.println();  
        displayRoomInformation1();  
        System.out.println();  
        displayPatientInformation2();  
        fee2();  
        System.out.println();  
        displayRoomInformation2();  
  
    }  
}
```